

ABSTRACT

SIGNAL TRANSMISSION SYSTEMS

Signal transmission systems for second and third generation mobile communications networks are described. A signal distribution system comprises a plurality of rf transmitters for serving a plurality of network cells. The system is characterised by a multiplexer coupled to the transmitters for multiplexing the transmitter outputs, a signal transporter for transporting the multiplexed signals to each of the network cells, and a multiplexed signal receiver at each cell for selecting and receiving a signal from a transmitter serving the cell. The invention also provides a complementary signal reception system, and corresponding methods. Preferably, the multiplexed signals are transported over a fibre optic network such as an existing cable TV network. The system simplifies the deployment of network infrastructure for third generation mobile communications systems.

Figure 6

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